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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/829,763	04/10/2001	Osamu Shibata	29288.0400	9593
20322 7.	590 09/08/2005		EXAMINER	
SNELL & WILMER			PICH, PONNOREAY	
ONE ARIZONA CENTER 400 EAST VAN BUREN			ART UNIT	PAPER NUMBER
PHOENIX, AZ 850040001			2135	
			DATE MAILED: 09/08/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

S						
	Application No.	Applicant(s)				
	09/829,763	SHIBATA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ponnoreay Pich	2135				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fror to cause the application to become ABANDON	imely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 27 Ju)⊠ Responsive to communication(s) filed on <u>27 July 2005</u> .					
· ·	☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-9 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o 						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is of	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	tion No red in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summan Paper No(s)/Mail D 5) Notice of Informal 6) Other:					

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Claims 1-4 were amended. Claims 5-9 were newly added. Claims 1-9 are pending.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action. The previous office action(s) is/are incorporated by reference in its/their entirety. The examiner assumes that the applicant agrees with any well-known prior art statements and/or rejections made by the examiner in the previous office action(s) that were not argued. Any objections or rejections not repeated below for record are withdrawn due to applicant's amendments and/or arguments.

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/27/2005 has been entered.

Docketing

Please note that the application has been redocketed to a different examiner.

Please refer all future communications regarding this application to the examiner of record using the information supplied in the final section of the office action.

Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

1. In claim 3, it is unclear what "store the encrypted content key", the storage device or the mutual authentication section.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Angelo et al (Us 5,923,754) in view of Venkatesan et al (US 6,801,999), herein referred to as Ven.

Claim 1:

Angelo discloses the limitations of:

1. An internal-key storage section operable to store an internal key (Fig 2, items 42 and 44; col 3, lines 50-58; and col 4, lines 31-33).

2. A content-key storage section operable to store content-keys (Fig 3, items 62 and 64; col 3, lines 50-58; and col 4, lines 41-67).

- 3. An operation section, the operating section including:
 - a. A first decryption section operable to, when an encrypted content-key is input to the operation section, decrypt the encrypted content-key using the internal-key so as to obtain a content-key and store the content-key in the content-key storage section (Fig 3, item 66; col 3, lines 58-62; and col 4, lines 59-61).
 - b. A second decrying section operable to, when an encrypted content is input to the operation section, decrypt the encrypted content using the current value of the content-key storage section as a content-key so as to obtain a first output data and output the first output data to the outside of the decryption device (Fig 3, items 68-72; col 3, lines 58-62; and col 4, lines 61-67).

Angelo does not explicitly disclose a determination section operable to determine whether or not a value of the content-key storage section in its initial state and a current value of the content-key storage section are different.

However, Ven teaches determining a whether or not a watermark key has expired, the keys being such that they routinely expire after a given interval of time (col 7, lines 48-51). This teaching by Ven reads on the above limitation not met by Angelo. In light of Ven's teaching, it would have been obvious to one of ordinary skill in the art at

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the time the applicant's invention was made to have modified Angelo's invention

according to the limitations recited in claim 1. One of ordinary skill would have been motivated to do so as Ven discloses his teachings would reduce, if not, halt expanding

security breach of protected objects when knowledge of compromised keys spread

across a large user community (col 7, lines 54-59).

Claim 2:

Angelo and Ven disclose all the limitations recited in claim 1. Angelo further discloses the limitations of:

1. A content-key generation section operable to generate a content-key used for encrypting a content based on random numbers and store the generated content-key in the content-key storage section (col 4, lines 41-52), wherein the operation section further includes:

- A first encryption section operable to encrypt the content-key used for encrypting a content so as to obtain an encrypted content-key and output the encrypted content-key to outside of the decryption device (col 3, lines 51-62 and col 4, lines 57-59).
- A second encryption section operable to, when a content is input to the operation section, output the second output data to the outside of the decryption device (col 3, lines 51-62).

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Further, the limitation of "the determination section determines that the value of the content-key storage section in its initial state and the current value of the content-key storage section are different" is disclosed by Ven (col 7, lines 48-51).

Claim 3:

Angelo and Ven disclose all the limitations of claim 1. Angelo further discloses the limitations of:

- A mutual authentication section operable to determine whether or not a mutual authentication has been made between the mutual authentication section and a storage device which is located outside the decryption device and store the encrypted content-key (col 4, lines 42-52).
- 2. Wherein the second decryption section is operable to decrypt the encrypted content when the mutual authentication section determines that the mutual authentication has been made (col 4, lines 57-67).

Claim 4:

Angelo and Ven disclose all the limitations of claim 1. Angelo further discloses the limitations of:

- 1. The internal storage section is operable to store a plurality of internal-keys (col 4, lines 31-33 and Fig 2).
- The internal-key storage section is operable to select one of the plurality of internal-keys as the internal-key based on internal-key selection information input from outside the decryption device to the decryption device (Fig 3).

Claim 5:

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Angelo and Ven disclose all the limitations of claim 1. Further, Ven discloses the second decryption section is further operable to prevent decryption of the encrypted content when the determination section determines that the value of the content-key storage section in its initial state and the current value of the content-key storage section are the same (col 7, lines 48-51 and col 8, lines 46-51).

Claim 6:

Angelo discloses a method for decrypting encrypted content in a decryption device including an internal-key storage section and a content-key storage section, the method comprising:

- 1. Storing an internal-key in the internal-key storage section (Fig 2, items 42 and 44; col 3, lines 50-58; and col 4, lines 31-33).
- 2. Storing content-keys in the content-key storage section (Fig 3, items 62 and 64; col 3, lines 50-58; and col 4, lines 41-67).
- 3. Decrypting an encrypted content-key provided to the decryption device by using the internal-key so as to obtain a content key and storing the content-key in the content-key storage section (Fig 3, item 66; col 3, lines 58-62; and col 4, lines 59-61).
- 4. Decrypting the encrypted content using the current value of the content-key storage section as the content-key so as to obtain a first output data and output the first output data to outside of the decryption device (Fig 3, items 68-72; col 3, lines 58-62; and col 4, lines 61-67).

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Angelo does not explicitly disclose the limitation of:

 When it is determined that the value of the content-key storage section in its initial state and the current value of the content-key storage section are different, decrypting the encrypted content.

However, Ven teaches determining a whether or not a watermark key has expired, the keys being such that they routinely expire after a given interval of time (col 7, lines 48-51). This teaching by Ven reads on the above limitation not met by Angelo. In light of Ven's teaching, it would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to have modified Angelo's invention according to the limitations recited in claim 6. One of ordinary skill would have been motivated to do so as Ven discloses his teachings would reduce, if not, halt expanding security breach of protected objects when knowledge of compromised keys spread across a large user community (col 7, lines 54-59).

Claim 7:

Angelo and Ven disclose all the limitations of claim 6. Angelo further discloses the limitations of:

 Generating a content-key used for encrypting a content based on random numbers and storing the generated content-key in the content key storage section (col 4, lines 41-52).

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2. Encrypting the content-key used for encrypting the content so as to obtain an encrypted content-key and outputting the encrypted content-key to outside of the decryption device (col 3, lines 51-62 and col 4, lines 57-59).

3. Encrypting the content using the current value of the content-key storage section as a content-key so as to obtain a second output data and output the second output data to outside of the decryption device (col 3, lines 51-62).

Further, Ven discloses the limitation of "when it is determined that the value of the content-key storage section in its initial state and the current value of the content-key storage section are different" (col 7, lines 48-51).

Claim 8:

Angelo and Ven disclose all the limitations of claim 6. Angelo further discloses the limitations of:

- Storing a plurality of internal-keys in the internal-key storage section (col 4, lines 31-33 and Fig 2).
- Selecting one of the plurality of internal-keys as the internal-key based on internal-key selection information input from outside the decryption device to the decryption device (Fig 3).

Claim 9:

Angelo and Ven disclose all the limitations of claim 6. Ven further discloses the limitation of "preventing decryption of the encrypted content when it is determined that

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the value of the content-key storage section in its initial state and the current value of the content-key storage section are the same" (col 7, lines 48-51 and col 8, lines 46-51).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ponnoreay Pich whose telephone number is 571-272-7962. The examiner can normally be reached on 8:00am-4:30pm Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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